

101.12 - Steelmaking Alloys (powder form)

These SRMs are intended for checking chemical methods of analysis for major constituents and selected minor elements. They are furnished as fine powders (usually <0.1 mm).

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Elemental Composition (mass fraction in %)

| SRM | Description | Unit of Issue | Aluminum (Al) | Arsenic (As) | Bismuth (Bi) | Boron (B) | Calcium (Ca) | Carbon (C) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Manganese (Mn) | Molybdenum (Mo) |
|-----|--|---------------|------------------|-----------------|-----------------|--------------|-----------------|---------------|------------------|----------------|----------------|--------------|--------------|-------------------|--------------------|
| 57b | Silicon Metal | 40 g | 0.1690 | | | 0.001443 | 0.00222 | | 0.00173 | 0.0015 | 0.00172 | 0.3400 | | 0.00782 | |
| 58a | Ferrosilicon (73% Si Regular Grade) | 75 g | 0.953 | (0.002) | | (<0.003) | 0.271 | 0.0143 | 0.0193 | (<0.03) | 0.0225 | 25.239 | | 0.1611 | (<0.01) |
| 59a | Ferrosilicon Grade E1 (powder form) | 50 g | 0.354 | | | 0.0578 | 0.0418 | 0.0458 | 0.0805 | | 0.0520 | 50.05 | | 0.754 | |
| 64c | Ferrochromium High Carbon (powder form) | 100 g | (0.006) | (0.003) | | | | 4.698 | 68.00 | 0.0515 | 0.0053 | 24.99 | | 0.1624 | (<0.001) |
| 68c | Standard Ferromanganese (powder form) | 100 g | | 0.0212 | | | | 6.721 | 0.0744 | (0.18) | | 12.30 | | 80.04 | |
| 90 | Ferrophosphorus (powder form) | 75 g | | | | | | | | | | | | | |
| 195 | Ferrosilicon (75% Si-High-Purity Grade) | 75 g | 0.0460 | | | 0.00105 | 0.054 | 0.03445 | 0.0474 | (<0.01) | 0.0468 | 23.62 | | 0.1710 | (0.01) |
| 196 | Ferrochromium Low Carbon (powder form) | 100 g | | | | | | 0.0351 | 70.81 | | | | | (0.28) | |
| 689 | Ferrochromium Silicon | 100 g | 0.049 | (0.009) | (<0.003) | 0.0017 | | 0.043 | 36.4 | 0.034 | 0.013 | 23.2 | (0.004) | 0.32 | |

- Certified values are normal font
- Reference values are italicized
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| Nickel (Ni) | Nitrogen (N) |
|----------------|-----------------|
| 0.00153 | |
| 0.0124 | |
| 0.0328 | |
| 0.429 | 0.0449 |
| (0.12) | |
| 0.0318 | |
| 0.36 | |
| 0.20 | (0.002) |

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| Elemental Composition (mass fraction in %) | | | | | | | | | |
|--|--|---------------|---------------|-------------------|-----------------|---------------|-------------|------------------|-------------------|
| SRM | Description | Unit of Issue | Oxygen (O) | Phosphorus (P) | Silicon (Si) | Sulfur (S) | Tin (Sn) | Titanium (Ti) | Zirconium (Zr) |
| 57b | Silicon Metal | 40 g | (0.4) | 0.00163 | | (0.003) | | 0.0346 | 0.00178 |
| 58a | Ferrosilicon (73% Si Regular Grade) | 75 g | (0.25) | 0.0105 | 73.13 | (<0.002) | (<0.005) | 0.0510 | (<0.005) |
| 59a | Ferrosilicon Grade E1 (powder form) | 50 g | | 0.0158 | 48.10 | (0.002) | | | |
| 64c | Ferrochromium High Carbon (powder form) | 100 g | (0.12) | 0.0193 | 1.216 | 0.0673 | (<0.0005) | 0.0179 | 0.1528 |
| 68c | Standard Ferromanganese (powder form) | 100 g | (0.11) | 0.192 | 0.2250 | (0.008) | | | |
| 90 | Ferrophosphorus (powder form) | 75 g | | 26.17 | | | | | |
| 195 | Ferrosilicon (75% Si-High-Purity Grade) | 75 g | (<1) | 0.0190 | 75.32 | (<0.002) | (<0.005) | 0.0367 | 0.0110 |
| 196 | Ferrochromium Low Carbon (powder form) | 100 g | | 0.0195 | 0.373 | 0.003 | | | (0.12) |
| 689 | Ferrochromium Silicon | 100 g | (0.06) | 0.026 | 39.5 | 0.002 | | 0.40 | 0.09 |

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